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GOVERNOR

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DIVISION OF WATER  
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LEONARD K. PETERS  
SECRETARY

**FACT SHEET**

**KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM  
PERMIT TO DISCHARGE TREATED WASTEWATER  
INTO WATERS OF THE COMMONWEALTH**

KPDES No.: KY0044342      Permit Writer: Diana Davidson      Date: May 11, 2009  
AI No.: 2109

1. **SYNOPSIS OF APPLICATION**

a. Name and Address of Applicant

Louisville & Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville, Kentucky 40208

b. Facility Location

Lake of the Woods STP  
11006 Walbridge Court  
Louisville, Jefferson County, Kentucky

c. Description of Applicant's Operation

Subdivision

d. Design Capacity

0.044 MGD

e. Description of Existing Pollution Abatement Facilities

This facility's treatment process consists of aerated lagoon, chlorine disinfection, dechlorination, and discharge to surface water.

f. Permitting Action

This is a reissuance of a minor KPDES permit for a wastewater treatment plant serving a subdivision.

2. **RECEIVING WATER**

a. Name/Mile Point

Facility discharges to an unnamed tributary of Chenoweth Run at 38°09' 42" North Latitude and 85°33' 5.0" West Longitude.

b. Stream Segment Use Classification

Pursuant to 401 KAR 10:026, Section 5, the unnamed tributary to Chenoweth Run carries the following classifications:

Warmwater Aquatic Habitat, Primary/Secondary Contact Recreation, and Domestic Water Supply

c. Stream Segment Categorization

Pursuant to 401 KAR 10:030, Section 1, the unnamed tributary to Chenoweth Run is categorized as Impaired Waters.

Chenoweth Run stream segment from mile point 0.0 to mile point 5.2 is listed on the Draft 2008 Integrated Report to Congress on the Condition of Water Resources in Kentucky Volume II 303(d) List of Surface Waters as impaired. The impaired use is for Primary Contact Recreation from Fecal Coliform. The suspect sources for the Fecal Coliform impairment are Unspecified Urban Stormwater, Municipal Point Source Discharges, and Livestock (Grazing or Feeding Operations). A properly operating facility should not contribute to this impairment.

The Division's Total Maximum Daily Load (TMDL) for the Chenoweth Run stream segment from mile point 0.0 to mile point 5.2 was approved in 1996 by the United States Environmental Protection Agency Region IV meeting full compliance with Section 303(d) of the Clean Water Act, which requires that TMDLs be established at levels necessary to implement the applicable water quality standards.

The Category 4(A) Approved TMDL for this stream segment of Chenoweth Run is for the impairment to Warmwater Aquatic Habitats from Aquatic Plants (Macrophytes) and Nutrient/Eutrophication Biological Indicators.

d. Stream Low Flow Condition

The 7-day, 10-year low flow conditions of the unnamed tributary to Chenoweth Run is 0.00 cfs.

### 3. REPORTED DISCHARGE AND PROPOSED LIMITS

Serial Number 001 - Sanitary Wastewater (Design Flow = 0.044 MGD)

| Effluent Characteristics           | Reported Discharge |               | Proposed Limits      |               | Applicable Water Quality Criteria and/or Effluent Guidelines                             |
|------------------------------------|--------------------|---------------|----------------------|---------------|--|
|                                    | Monthly Average    | Daily Maximum | Monthly Average      | Daily Maximum |  |
| Flow (MGD)                         | 0.0297             | 0.0991        | Report               | Report        | 401 KAR 5:065, Section 2(8)  |
| CBOD <sub>5</sub> (mg/l)           | 5.73               | 5.78          | 30                   | 45            | 401 KAR 10:031, Section 4<br>401 KAR 5:045, Sections 3 and 5                             |
| TSS (mg/l)                         | 10.25              | 10.42         | 30                   | 45            | 401 KAR 10:031, Section 4<br>401 KAR 5:045, Sections 2 and 3                             |
| Fecal Coliform (N/100 ml)          | 3.48               | 18.26         | Removing from permit |               | 401 KAR 5:080, Section 1(2)(c)2  |
| <i>Escherichia Coli</i> (N/100 ml) | NR                 | NR            | 130                  | 240           | 401 KAR 10:031, Section 7<br>401 KAR 5:045, Section 4<br>401 KAR 5:080, Section 1(2)(c)2 |
| Ammonia Nitrogen (as mg/l N)       |                    |               |                      |               |  |
| May 1 - October 31                 | 0.97               | 1.13          | 4.0                  | 6.0           | 401 KAR 10:031, Section 4  |
| November 1 - April 30              | 0.97               | 1.13          | 10                   | 15            | 401 KAR 5:045, Sections 3 and 5  |
| Dissolved Oxygen (mg/l) (minimum)  | 7.60               | N/A           | Not less than 7.0    |               | 401 KAR 10:031, Section 4<br>401 KAR 5:045, Sections 3 and 5                             |
| pH (standard units)                | 6.2                | 8.9           | 6.0 (min)            | 9.0 (max)     | 401 KAR 10:031, Section 4<br>401 KAR 5:045, Section 4                                    |
| Total Phosphorus (mg/l)            | 2.18               | 2.27          | 1.0                  | 2.0           | 401 KAR 5:065, Section 2(8)<br>401 KAR 5:080, Section 1(2)(c)2                           |
| Total Nitrogen (mg/l)              | N/A                | N/A           | Report               | Report        | 401 KAR 5:065, Section 2(8)  |

### 3. REPORTED DISCHARGE AND PROPOSED LIMITS - SANITARY FACILITY

Serial Number 001 - Sanitary Wastewater (Design Flow = 0.044 MGD)

| Effluent Characteristics       | Reported Discharge |                  | Proposed Limits    |                  | Applicable Water Quality<br>Criteria and/or Effluent<br>Guidelines |
|--------------------------------|--------------------|------------------|--------------------|------------------|--|
|                                | Monthly<br>Average | Daily<br>Maximum | Monthly<br>Average | Daily<br>Maximum |  |
| Total Residual Chlorine (mg/l) | NR                 | NR               | 0.011              | 0.019            | 401 KAR 10:031, Section 4(k)                                       |

The data contained under the reported discharge columns is not from the renewal application, but rather from the analysis of the DMR data that has been reported during the term of the previous permit.

The abbreviation CBOD<sub>5</sub> means Carbonaceous Biochemical Oxygen Demand (5-day).

The abbreviation TSS means Total Suspended Solids.

The abbreviation NR means not reported on the Discharge Monitoring Report (DMR).

The effluent limitations for CBOD<sub>5</sub> and TSS are Monthly (30 day) and Weekly (7 day) Averages.

The effluent limitations for *Escherichia Coli* are thirty (30) day and seven (7) day Geometric Means.

Total Nitrogen is to be reported as the summation of the analytical results for Total Nitrates, Total Nitrites, and Total Kjeldahl Nitrogen.

4. METHODOLOGY USED IN DETERMINING LIMITATIONS

a. Serial Number

Outfall 001 Sanitary Wastewater (Design Flow = 0.044 MGD)

b. Effluent Characteristics

Flow, CBOD<sub>5</sub>, TSS, Fecal Coliform Bacteria, *Escherichia Coli*, pH, Ammonia Nitrogen, Dissolved Oxygen, Total Residual Chlorine (TRC), Total Phosphorus, and Total Nitrogen.

c. Pertinent Factors

Louisville and Jefferson County Metropolitan Sewer District has identified a potential interceptor project (Billtown Road Pump Station, Force Main & Interceptor Sanitary Sewer Project) that will allow the Lake of the Woods STP to be eliminated along with an additional interceptor project and send flow to the Cedar Creek wastewater treatment plant. This project is in the current five (5) year capital plan with an estimated elimination of Lake of the Woods pending completion of the Billtown Road Pump Station, Force Main & Interceptor Project and related projects.

d. Monitoring Requirements

Flow monitoring shall be conducted instantaneously once per month.

CBOD<sub>5</sub>, TSS, Ammonia Nitrogen, Total Phosphorus and Total Nitrogen shall be monitored once per month by 24 hour composite sampling. Composite sample means an effluent portion consisting of a minimum of four (4) combined equal volume grab samples taken approximately two (2) hours apart.

*Escherichia Coli*, pH, Dissolved Oxygen and Total Residual Chlorine shall be monitored once per month by grab sample.

e. Justification of Conditions

The Kentucky regulations cited below have been duly promulgated pursuant to the requirements of Chapter 224 of the Kentucky Revised Statutes.

*Escherichia Coli* and Fecal Coliform Bacteria

The limits for *Escherichia Coli* are consistent with the requirements of 401 KAR 10:031, Section 7, 401 KAR 5:045 Section 4 and 401 KAR 5:080, Section 1(2)(c) 2. The removal of Fecal Coliform Bacteria is consistent with the requirements of 401 KAR 5:080k Section 1 (2) (c)2. Although Fecal Coliform Bacteria has been used as an indicator of fecal contamination, it does contain other species that are not necessarily fecal in origin. EPA recommends *Escherichia Coli*, which is specific to fecal material from warm-blooded animals, as the best indicator of health risk from contact with recreational waters. Therefore, it is the "Best Professional Judgment "BPJ" of the Division of Water that *Escherichia Coli* replace Fecal Coliform Bacteria on this permit.

Flow

The monitoring requirements for this parameter are consistent with the requirements of 401 KAR 5:065, Section 2(8).

CBOD<sub>5</sub>, Ammonia Nitrogen, and Dissolved Oxygen

The limits for these parameters are consistent with the requirements of 401 KAR 10:031, Section 4, and 401 KAR 5:045, Sections 3 and 5. Section 4 of 10:031 establishes water quality criteria for the protection of Kentucky's waters. Section 5 of 5:045 requires biochemically degradable wastewaters to receive treatment in excess of secondary treatment if the Cabinet determines that the receiving water would not satisfy applicable water quality standards as a result of a facility discharge or discharges from multiple facilities.

Total Suspended Solids

The limits for this parameter are consistent with the requirements of 401 KAR 10:031, Section 4 and 5:045, Sections 2 and 3. Section 4 of 10:031 establishes water quality criteria for the protection of Kentucky's waters. Sections 2 and 3 of 5:045 require biochemically degradable wastewaters to receive secondary treatment.

pH

The limits for these parameters are consistent with the requirements of 401 KAR 10:031, Section 4 and 5:045, Section 4. Section 4 of 10:031 establishes water quality criteria for the protection of Kentucky's waters. Section 4 of 5:045 establishes the acceptable levels of these parameters for biochemically degradable wastewaters.

Total Residual Chlorine

The limits for these parameters are consistent with the requirements of 401 KAR 10:031, Section 4.

Total Phosphorus

The limits for phosphorus are consistent with the requirements of 401 KAR 5:080, Section 1(2)(c) 2. These limits are representative of the Division of Water's "Best Professional Judgment" (BPJ) determination of the "Best Practicable Technology Currently Available" (BPT) and "Best Available Technology Economically Achievable" (BAT) requirements for these pollutants.

Total Nitrogen

The monitoring requirement for this parameter is consistent with the requirements of 401 KAR 5:065, Section 2(8)(a). Total Nitrogen is TKN (as N) and nitrate/nitrite (as N).

5. **ANTIDEGRADATION**

The conditions of 401 KAR 10:029, Section 1 have been satisfied by this permit action. Since this permit action involves reissuance of an existing permit, and does not propose an expanded discharge, a review under 401 KAR 10:030 Section 1 is not applicable.

6. **PROPOSED COMPLIANCE SCHEDULE FOR ATTAINING EFFLUENT LIMITATIONS**

The permittee will comply with all effluent limitations by the effective date of the permit.

7. **PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE**

**Disposal of Non-Domestic Wastes**

The pass through or non-treatment by the wastewater treatment plant of chemicals or compounds which may injure, be chronically or acutely toxic to or produce adverse physiological or behavioral responses in humans, animals, fish and other aquatic life is not desirable. Materials such as acids, caustics, herbicides, household chemicals or cleansers, insecticides, lawn chemicals, non-biodegradable products, paints, pesticides, pharmaceuticals, and petroleum based products may not be treatable by the wastewater treatment plant and should not be introduced and other environmentally sound methods for disposal should be utilized. The permittee should educate users of its system that introduction of such chemicals or compounds could result in an adverse environmental impact and provide the users with alternative disposal measures. This requirement is consistent with the requirements of 401 KAR 5:065, Section 1(5) and 401 KAR 5:080, Section 1(c)(2)c.

7. **PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE**

**Connection to a Regional Facility**

The Division of Water considers package wastewater treatment plants treating domestic wastewaters as temporary solutions that shall be eliminated by connection to a regional wastewater treatment facility when sewers of sufficient capacity become available. "Available" is defined as being located within the planning area and within one (1.0) miles along the most feasible route of connection to sewers of sufficient capacity to carry the additional flow. This requirement to eliminate the package treatment plant serving this facility is consistent with the requirements of 401 KAR 5:005, Section 4(6) and 401 KAR 5:002, Section 1(21).

**Certified Operators**

Pursuant to 401 KAR 5:010, Section 2(1) wastewater systems shall be operated under the supervision of a certified operator who holds a Kentucky Certificate equivalent to the class of system being supervised. All other operators employed by the system shall hold a Kentucky Certificate or shall be in the process of obtaining a Kentucky Certificate.

Pursuant to 401 KAR 5:010, Section 8 wastewater systems shall be classified as follows:

- Class I: Systems with a design capacity of less than or equal to 50,000 gpd
- Class II: Systems with a design capacity of more than 50,000 gpd but less than or equal to 2.0 MGD
- Class III: Systems with a design capacity of more than 2.0 MGD but less than or equal to 7.5 MGD
- Class IV: Systems with a design capacity of more than 7.5 MGD

Section 2(2) of 401 KAR 5:010 require the certified operator to be reasonably available if not physically present while the system is operating.

Section 2(3) of 401 KAR 5:010 require the Kentucky Certificate shall be displayed on the wall of wastewater system office.

**Outfall Signage**

As a member of ORSANCO (Ohio River Valley Sanitation Commission) the Commonwealth of Kentucky through the Division of Water implements a requirement that the permittee post a permanent marker at each discharge point to the Ohio River. It is the Best Professional Judgment of the Division of Water, 401 KAR 5:080, Section 1(2)(c)2, that all permittees post a marker at all discharge locations and/or monitoring points. The ORSANCO requirements for the marker specify it to be at least 2 feet by 2 feet in size and a minimum of 3 feet above ground level with the Permittee Name and KPDES permit and outfall numbers in 2 inch letters. For internal monitoring points the marker shall be of sufficient size to include the outfall number in 2 inch letters and is to be posted as near as possible to the actual sampling location.

8. **PERMIT DURATION**

Five (5) years. This facility is in the Salt/Licking Basin Management Unit as per the Kentucky Watershed Management Framework.

9. **PERMIT INFORMATION**

The application, draft permit, fact sheet, public notice, comments received, and additional information is available from the Division of Water at 200 Fair Oaks Lane, Frankfort, Kentucky 40601.

10. **REFERENCES AND CITED DOCUMENTS**

All material and documents referenced or cited in this fact sheet are a part of the permit information as described above and are readily available at the Division of Water Central Office. Information regarding these materials may be obtained from the person listed below.

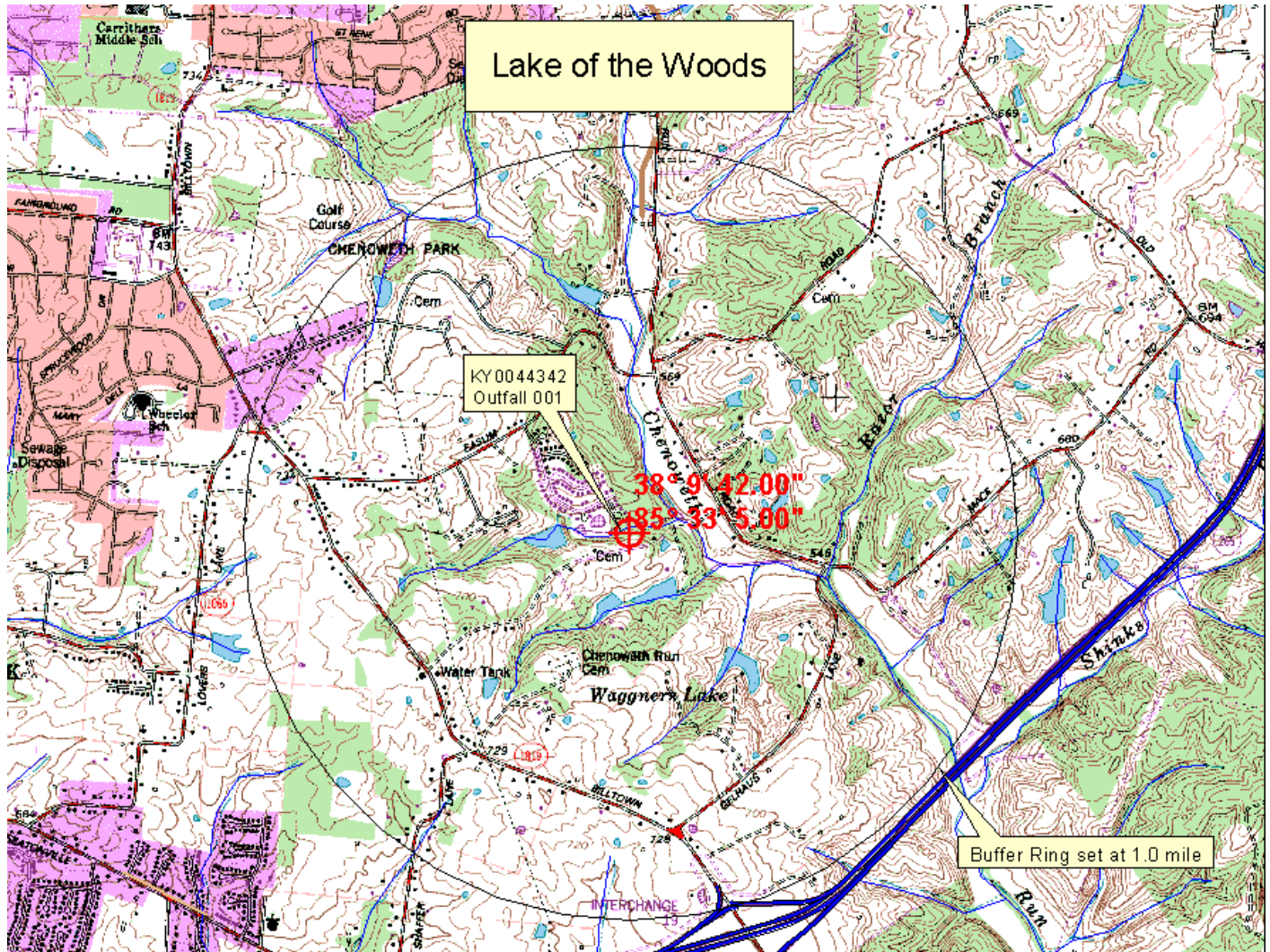
11. **CONTACT**

For further information on the draft permit or comment process, contact the individual identified on the Public Notice or the Permit Writer - Diana Davidson at (502) 564-8158, extension 4901, or email [Diana.Davidson@ky.gov](mailto:Diana.Davidson@ky.gov).

12. **PUBLIC NOTICE INFORMATION**

Please refer to the attached Public Notice for details regarding the procedures for a final decision, deadline for comments and other information required by 401 KAR 5:075, Section 4(2)(e).





# KPDES



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT

PERMIT NO.: KY0044342  
AI NO.: 2109

### AUTHORIZATION TO DISCHARGE UNDER THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Pursuant to Authority in KRS 224,

Louisville & Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville, Kentucky 40208

is authorized to discharge from a facility located at

Lake of the Woods STP  
11006 Walbridge Court  
Louisville, Jefferson County, Kentucky

to receiving waters of an

unnamed tributary of Chenoweth Run at 38°09' 42" North Latitude and 85°33'  
5.0" West Longitude

in accordance with effluent limitations, monitoring requirements and other conditions  
set forth in Parts I, II, III, and IV hereof. The permit consists of this cover  
sheet, and Part I 2 pages, Part II 1 pages, and Part III 2 page.

This permit shall become effective on.

This permit and the authorization to discharge shall expire at midnight,

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Sandra L. Gruzesky, Director  
Division of Water

# A1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the term of this permit, the permittee is authorized to discharge from Outfall serial number: 001 - Sanitary Wastewater (Design Flow = 0.044 MGD)

Such discharges shall be limited and monitored by the permittee as specified below:

| <u>EFFLUENT CHARACTERISTICS</u>    | <u>DISCHARGE LIMITATIONS</u> |               |                       |               | <u>MONITORING REQUIREMENTS</u> |                 |
|------------------------------------|------------------------------|---------------|-----------------------|---------------|--------------------------------|-----------------|
|                                    | (lbs/day)                    |               | Other Units (Specify) |               |                                |                 |
|                                    | Monthly<br>Avg.              | Daily<br>Max. | Monthly<br>Avg.       | Daily<br>Max. | Measurement<br>Frequency       | Sample<br>Type  |
| Flow (MGD)                         | Report                       | Report        | N/A                   | N/A           | 1/Month                        | Instantaneous   |
| CBOD <sub>5</sub> (mg/l)           | 11.0                         | 16.51         | 30                    | 45            | 1/Month                        | 24 Hr Composite |
| TSS (mg/l)                         | 11.0                         | 16.51         | 30                    | 45            | 1/Month                        | 24 Hr Composite |
| Ammonia Nitrogen (as mg/l N)       |                              |               |                       |               |                                |                 |
| May 1 - October 31                 | 1.47                         | 2.20          | 4.0                   | 6.0           | 1/Month                        | 24 Hr Composite |
| November 1 - April 30              | 3.67                         | 5.50          | 10                    | 15            | 1/Month                        | 24 Hr Composite |
| <i>Escherichia Coli</i> (N/100 ml) | N/A                          | N/A           | 130                   | 240           | 1/Month                        | Grab            |
| Dissolved Oxygen (mg/l) (minimum)  | N/A                          | N/A           | Not less than         | 7.0           | 1/Month                        | Grab            |
| pH (standard units)                | N/A                          | N/A           | 6.0 (min)             | 9.0 (max)     | 1/Month                        | Grab            |
| Total Residual Chlorine (mg/l)     | N/A                          | N/A           | 0.011                 | 0.019         | 1/Month                        | Grab            |
| Total Phosphorus (mg/l)            | N/A                          | N/A           | 1.0                   | 2.0           | 1/Month                        | 24 Hr Composite |
| Total Nitrogen (mg/l)              | N/A                          | N/A           | Report                | Report        | 1/Month                        | 24 Hr Composite |

The abbreviation CBOD<sub>5</sub> means Carbonaceous Biochemical Oxygen Demand (5-day).

The abbreviation TSS means Total Suspended Solids.

The abbreviation N/A means Not Applicable.

The effluent limitations for CBOD<sub>5</sub> and TSS are Monthly (30 day) and Weekly (7 day) Averages.

The effluent limitations for *Escherichia Coli* are thirty (30) day and seven (7) day Geometric Means.

Total Nitrogen is to be reported as the summation of the analytical results for Total Nitrates, Total Nitrites, and Total Kjeldahl Nitrogen.

There shall be no discharge of floating solids or visible foam or sheen in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: nearest accessible point prior to discharge to or mixing with the receiving waters or wastestreams from other outfalls.

B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with all requirements on the effective date of this permit.

DRAFT

**STANDARD CONDITIONS FOR KPDES PERMIT**

This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal, and local agencies.

It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods.

The permittee is also advised that all KPDES permit conditions in KPDES Regulation 401 KAR 5:065, Section 1 will apply to all discharges authorized by this permit.

**PART III**

OTHER REQUIREMENTS

A. Reporting of Monitoring Results

Monitoring results obtained during each monitoring period must be reported on a preprinted Discharge Monitoring Report (DMR) Form that will be mailed to you. The completed DMR for each monitoring period must be sent to the Division of Water at the address listed below (with a copy to the appropriate Regional Office) postmarked no later than the 28th day of the month following the monitoring period for which monitoring results were obtained.

Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, Kentucky 40222-5084  
ATTN: Supervisor

Division of Water  
Surface Water Permits Branch  
Permit Support Section  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

B. Reopener Clause

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under 401 KAR 5:050 through 5:086, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable.

C. Disposal of Non-Domestic Wastes

The pass through or non-treatment by the wastewater treatment plant of chemicals or compounds which may injure, be chronically or acutely toxic to or produce adverse physiological or behavioral responses in humans, animals, fish and other aquatic life is not desirable. Materials such as acids, caustics, herbicides, household chemicals or cleansers, insecticides, lawn chemicals, non-biodegradable products, paints, pesticides, pharmaceuticals, and petroleum based products may not be treatable by the wastewater treatment plant and should not be introduced and other environmentally sound methods for disposal should be utilized. The permittee should educate users of its system that introduction of such chemicals or compounds could result in an adverse environmental impact and provide the users with alternative disposal measures.

D. Certified Operators

This wastewater system shall be operated under the supervision of a Class I Kentucky Certified Operator who shall be reasonably available at all times. All other operators employed by the system shall hold a Kentucky Certificate or shall be in the process of obtaining a Kentucky Certificate. The certificates of each operator shall be prominently displayed on the wall of the system office.

E. Outfall Signage

The permittee shall post a permanent marker at all discharge locations and/or monitoring points. The marker shall be at least 2 feet by 2 feet in size and a minimum of 3 feet above ground level with the Permittee Name and KPDES permit and outfall numbers in 2 inch letters. For internal monitoring points the marker shall be of sufficient size to include the outfall number in 2 inch letters and shall be posted as near as possible to the actual sampling location.

### PART III

#### OTHER REQUIREMENTS

##### F. Connection to a Regional Facility

The Division of Water considers package wastewater treatment plants treating domestic wastewaters as temporary solutions that shall be eliminated by connection to a regional wastewater treatment facility when sewers of sufficient capacity become available. This permitted activity is within the planning area of Louisville and Jefferson County Metropolitan Sewer District. Therefore the package treatment plant serving this facility shall be eliminated and the facility connected to the regional facility when the following conditions exist:

1. Sewers with sufficient integrity and capacity to carry the additional flow are available within one (1.0) mile of the facility. Such additional flow will not result in new or expanded Sanitary Sewer Overflows or Combined Sewer Overflows.
2. The regional facility has sufficient capacity to assimilate the additional wastewater flow and strength. The regional facility can be not under a sewer sanction or tap on ban.

During the term of this permit should the Division of Water determine that the aforementioned conditions exist the permittee shall receive written notification that connection to the regional facility and elimination of the package treatment plant shall occur prior to the expiration of this permit. This permit shall not be reissued unless the permittee can demonstrate to the Division of Water that the aforementioned conditions do not exist, or that natural or man-made obstructions exist, or the cost of connection and elimination would necessitate the closing of permitted activity.